

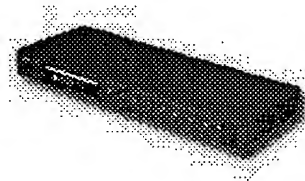
L Number	Hits	Search Text	DB	Time stamp
-	700	713/300-340.ccls. and keyboard and switch	USPAT	2003/07/10 16:04
-	0	713/300-340.ccls. and keyboard with monitor with swtich	USPAT	2003/07/10 16:05
-	0	713/300-340.ccls. and keyboard same monitor same swtich	USPAT	2003/07/10 16:06
-	720	713/300-340.ccls. and keyboard same power	USPAT	2003/07/10 16:06
-	240	713/300-340.ccls. and keyboard same switch same power	USPAT	2003/07/10 16:09
-	240	713/300-340.ccls. and keyboard same switch same power and ad<20000804	USPAT	2003/07/10 16:08
-	1	713/300-340.ccls. and keyboard same switch same power and kvm	USPAT	2003/07/10 16:10
-	1	713/300-340.ccls. and power and kvm	USPAT	2003/07/10 16:10
-	1	713/300-340.ccls. and kvm	USPAT	2003/07/10 16:10
-	4	(kvm).ti.	USPAT	2003/07/10 16:11
-	6	("5051720"   "5793999"   "5913034"   "5923103"   "5968116"   "6199180").PN.	USPAT	2003/07/10 16:18
-	5	("4939509"   "5214421"   "5499377"   "5721842"   "6069615").PN.	USPAT	2003/07/10 16:18
-	12	("4442321"   "5430850"   "5638516"   "5721828"   "5732212"   "5884096"   "5937176"   "6009490"   "6112264"   "6304895"   "6321366"   "6324605").PN.	USPAT	2003/07/10 16:19
-	5	("4769833"   "5721842"   "5740246"   "5884096"   "6073188").PN.	USPAT	2003/07/10 16:20
-	0	6378009.URPN.	USPAT	2003/07/10 16:20

# MARWAY POWER SYSTEMS

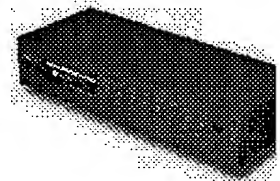
**Marway Power Systems designs, develops, and manufactures  
AC Power Distribution and Protection Devices.**

## POWER MANAGEMENT CONTROL (P

Remote AC power management & control at your fin



**PMC 1500  
Series**



**PMC 3000  
Series**

The MARWAY PMC Series (Power Management Control) is the ultimate power nerve center for controlling multiple electrical devices. With the PMC, you can individually switch and control up to eight AC powered output receptacles and any device receiving power from the PMC. The PMC puts your total electrical system at your control. Up to 15 client PMC units can be added to control a total of 128 electrical devices.

Multiple methods of communication, monitoring and control

The MARWAY PMC offers several convenient and flexible methods of communication, monitoring and control to the user. Most users simply connect it to their LAN using standard Ethernet connection. The PMC gives you control via a telephone with no additional modem

required. If desired, you can also connect an external modem to the unit via its built-in RS 232 port to dial-up to the Internet.

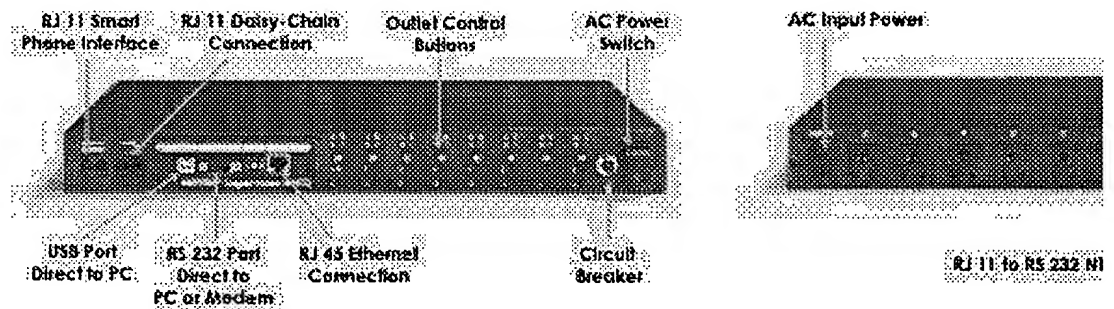
#### Features:

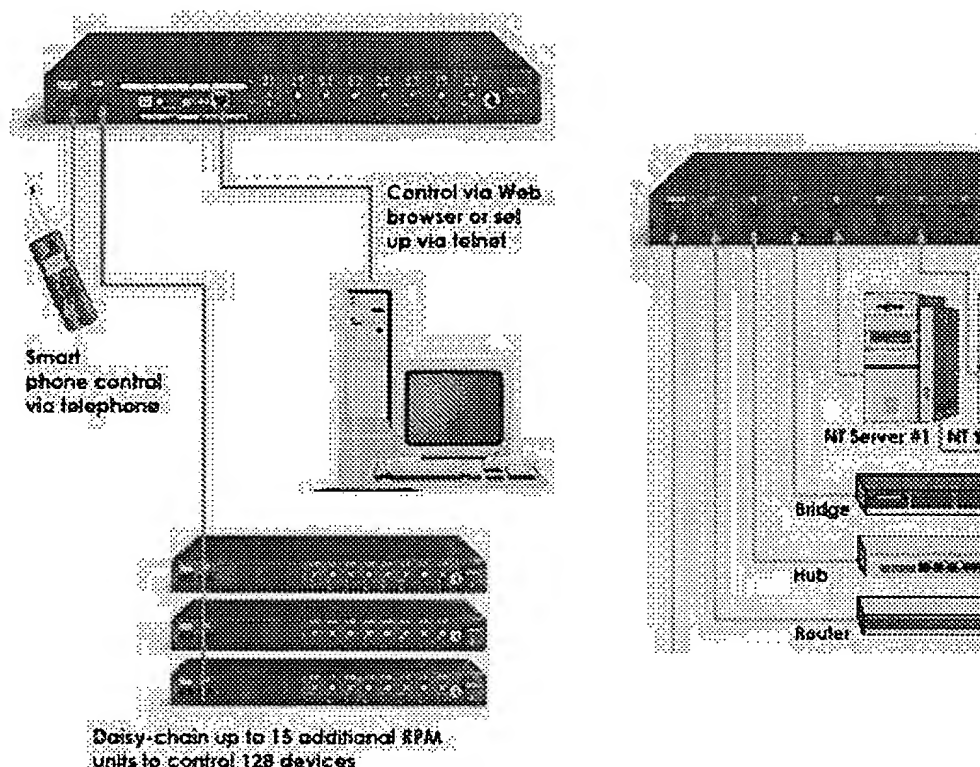
Once connected to the internet the PMC unit will send email to notification advising that if the unit is connected to the Web with a specific address, allowing the user to control the PMC through a Web browser, just as it were connected to the LAN.

Scheduled output receptacle control users can preset a day of the week and a specific time to start up and shutdown selected devices connected to the PMC.

Pager notification send alert via pagers or network broadcast if an unscheduled shutdown of the AC power.

Worldwide control Once the PMC is configured and connected to a network, you can easily control your AC power from virtually anywhere in the world using standard Web browser and password.





DAISY CHAIN SOLUTION

SERVER/LAN SOLUTION

PMC SPECIFICATIONS				
MODEL	PMC 1500NT	PMC 1500NTi	PMC 3000NT	PMC 3000NTi
Interface				
LAN	One (1) 10/100Mbps, RJ45			
IlLink	1 Input & 1 Output, connect to, iENV, RJ11			
USB	1 USB 1.0 for Setup			
RS-232	1 RS-232 port for console & PPP connection			
PHONE	1 Input & 1 Output, RJ11			
NT PORTS	8 Ports, RJ11			
POWER SWITCH BUTTON	1 Master Switch & 8 Switches for 8 Output Receptacles			
INTERNET CONTROL MODE SWITCH BUTTON	8 Internet Model Switches for 8 Output Receptacles			
OUTPUT RECEPTACLES	8 NEMA 5-15R 8 IEC320R 6 NEMA 5-15R & 6 IEC320R & 2 L5-30R 2 C			
INPUT CORD	NEMA 5-15P IEC 320P 2 NEMA L5-30P 2 IEC320P			
LED INDICATORS				
ON/OFF STATUS	8 Red LEDs for Output Receptacles			
CONTROL MODE	8 Green LEDs for Internet/Non Internet Control			

ID OF iLINK CASCADE	16 Yellow LEDs to Indicate the ID of the iLINK Cascade			
OPERATION & ENVIRONMENT				
NOMINAL INPUT VOLTAGE	115VAC	230VAC	115VAC	230VAC
INPUT VOLTAGE RANGE	85 - 260VAC			
NOMINAL INPUT FREQUENCY	50/60Hz FULL RANGE			
MAX. OUTPUT CAPACITY	15 Amps	7 Amps	30 Amps	15 Amps
INPUT PROTECTION	Circuit Breaker, Press to Reset			
DIMENSIONS x W x D	1.5 x 17 x 5.9	1.5 x 17 x 5.9	5.25 x 17 x 15	5.25 x 17 x 15
WEIGHT (lbs.)	4	4	11.2	11.2
COLOR	Black			
AGENCIES	UL, CUL, CE & TUV			

MODEL	DESCRIPTION
<b>PMC 1500</b>	1500VA, with WEB CARD, PHONE and iLINK port.
<b>PMC 1500NT</b>	1500VA, with NT, WEB and PHONE CARDS, iLINK port
<b>PMC 1500C</b>	1500VA CLIENT with iLINK port.
<b>PMC 1500NTC</b>	1500VA CLIENT with NT CARD and iLINK port

MODEL	DESCRIPTION
<b>PMC 3000</b>	3000VA, with WEB CARD, PHONE and iLINK port.
<b>PMC 3000NT</b>	3000VA, with NT, WEB and PHONE CARDS, iLINK port
<b>PMC 3000C</b>	3000VA CLIENT with iLINK port.
<b>PMC 3000NTC</b>	3000VA CLIENT with NT CARD and iLINK port

Specifications subject to change without notice.

Model number above is for Master Unit with NT Cards. For Master without NT Cards remove the NT from the Model Card add C in front of the above Model number.

Model Numbers:

- PMC 1500NT Master with NT Card CPMC 1500NT Client without NT Card
- PMC 1500 - Master without NT Card CPMC 1500 - Client without NT Card

(i) International version, IEC connections.

[webmaster@aic-web.com](mailto:webmaster@aic-web.com)

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Marway Power Systems

Last Modified: Tuesday, February 25, 2003 1:07 PM

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## INTELLIGENT POWER CONTROL™ IPC34XX SERIES

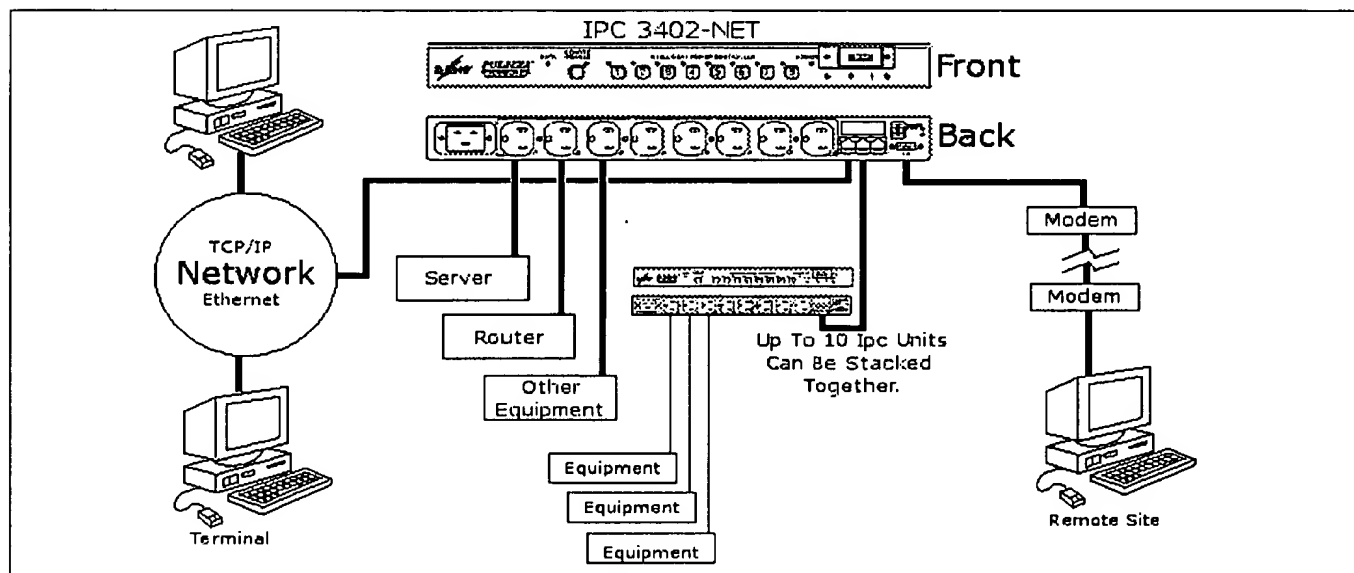
Front  
Panel

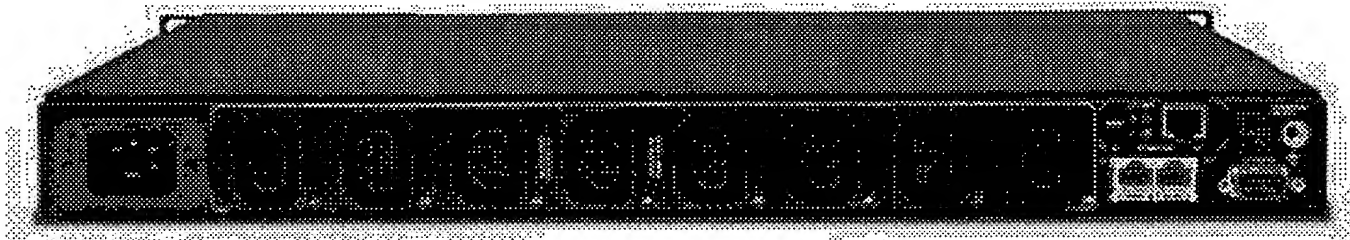


Rear  
Panel

### CONTROL YOUR POWER VIA INTERNET, INTRANET, DIAL-UP AND DIRECT (RS232) CONNECTIONS

<u>FEATURE</u>	<u>BENEFIT</u>
 LOCAL ON/OFF CONTROL OF EACH OUTLET AND REMOTE DISABLE WHEN NEEDED	PREVENT COSTLY SITE VISITS WITH PULIZZI'S PATENTED MULTI-PLATFORM SYSTEM
 STRAP UP TO 10 SYSTEMS FOR CONTROL OF 80 PORTS	SAVE MONEY BY USING ONLY 1 LINE OR IP ADDRESS FOR POWER MANAGEMENT OF 80 PORTS
 85-264VAC / 16A FOR USE ANYWHERE IN THE WORLD (IPC3401 MODEL)	REMOTE REBOOT LOCKED EQUIPMENT FROM ANYWHERE, ON OR OFF THE PLANET
 ETHERNET, TELNET, AND SERIAL ACCESS	CONVENIENT POWER CONTROL OVER YOUR NETWORK/WEB AND DIAL-UP OR COMBINE BOTH FOR REDUNDANCY JUST IN CASE ONE LOCKS UP
 EMI/RFI FILTERING, TVSS, UL LISTED OVER-CURRENT PROTECTION	PROTECT YOUR CRITICAL EQUIPMENT FROM ELECTRICAL NOISE, POWER SURGES AND MEET NEW ELECTRICAL SAFETY STANDARDS





IPC3401 Rear Panel

<p><b><u>CHASSIS</u></b></p> <ul style="list-style-type: none"> <li>• 1.75" (1U) x Depth 9.5" x Width 19.0"</li> <li>• Weight approximately 19lbs</li> <li>• 16 GA. Steel, Painted Black</li> </ul> <p><b><u>RACK MOUNTED</u></b></p> <ul style="list-style-type: none"> <li>• EIA standard for 19" racks</li> <li>• Hole spacing to IEC 297</li> <li>• Adjustable mounting to front or rear panel</li> <li>• Optional vertical or under counter mounting brackets 001-1928-1 (2 required)</li> </ul> <p><b><u>NEMA or IEC 320 OUTLETS</u></b></p> <ul style="list-style-type: none"> <li>• IPC 3401 has 8 IEC60320 Type C13 (computer style) outlets</li> <li>• Rated by UL/CSA 125V~/15A</li> <li>• Rated by UL/CSA/VDE 250V~/10A</li> <li>• Mating connector is C14 type (C13 to C14 jumper cables are available)</li> <li>• IPC 3402 has 8 NEMA 5-15R outlets</li> <li>• IPC 3402-A2 has 8 NEMA 5-20R outlets</li> </ul> <p><b><u>11 INDICATOR LIGHTS</u></b></p> <ul style="list-style-type: none"> <li>• Power available to system-CB "on"</li> <li>• Power "on" to outlets 1-8</li> <li>• Data acquisition</li> <li>• Remote Disable</li> </ul> <p><b><u>REMOTE or LOCAL CONTROL</u></b></p> <ul style="list-style-type: none"> <li>• Serial RS232 port (DB9 Male) for direct or modem connection</li> <li>• RS485 input/output ports for strapping up to 10 systems together over a CAT.5 cable</li> <li>• Local: one on/off switch for each outlet</li> <li>• -NET SYSTEMS ONLY: RJ45 for network connections</li> </ul>	<p><b><u>AVS™ (AUTO-VOLTAGE SELECTABLE)</u></b></p> <ul style="list-style-type: none"> <li>• The IPC3401-NET is auto-voltage selectable for operation at either 120V~ or 240V~ input/output</li> </ul> <p><b><u>BAUD RATE</u></b></p> <ul style="list-style-type: none"> <li>• Default: 9600 baud</li> </ul> <p><b><u>EMI/RFI FILTERING</u></b></p> <ul style="list-style-type: none"> <li>• Common Mode - Line to Ground</li> <li>• Differential Mode - Line to Line</li> <li>• Filtered inlet isolates noise before entering the system</li> </ul> <p><b><u>SPIKE/SURGE SUPPRESSION</u></b></p> <ul style="list-style-type: none"> <li>• Line to Neutral, Line to Ground, Neutral to Ground</li> <li>• External Ground MOV removal switch for easy hi-pot testing</li> </ul> <p><b><u>LISTED OVERLOAD CIRCUIT BREAKER PROTECTION</u></b></p> <ul style="list-style-type: none"> <li>• Listed Main Disconnect Breaker, with a long time delay curve, which provides both manual on/off switching and open (trip) automatically with an overload condition</li> <li>• Kick Guard's are provided</li> </ul> <p><b><u>POWER INPUT</u></b></p> <ul style="list-style-type: none"> <li>• IEC60320 Type C20 EMI/RFI Filtered Inlet with retaining clip.</li> <li>• Optional power cable assemblies are available – see below</li> </ul> <p><b><u>OUTLET STATUS</u></b></p> <ul style="list-style-type: none"> <li>• Query the IPC for Outlet and Watch Dog status, i.e. outlets are "on" or "off"</li> </ul> <p><b><u>STRAPPING</u></b></p> <ul style="list-style-type: none"> <li>• Strapping allows up to 10 IPC's (80 outlets) be controlled at one address.</li> <li>• Units are connected together via the RS485 "IN" and "OUT" connectors</li> </ul>	<p><b><u>REMOTE DISABLE</u></b></p> <ul style="list-style-type: none"> <li>• With the push of a button, disable remote access to the IPC when needed</li> </ul> <p><b><u>PATENTED MULTIPLE TIME DELAY™ (MTD™)</u></b></p> <ul style="list-style-type: none"> <li>• Sequence power up and power down to outlets with a four second time delay (factory set)</li> <li>• User Programmable: <ul style="list-style-type: none"> <li>• Set power "on" sequence to any combination of outlets</li> <li>• Set the MTD™ timing from 1 second to 999 seconds, i.e. 009 = 9 seconds</li> </ul> </li> </ul> <p><b><u>ADDRESSING</u></b></p> <ul style="list-style-type: none"> <li>• The IPC comes with a default address but you can also create your own with any four alphanumeric characters</li> <li>• Strapping allows for connection of up to 10 units at one address</li> </ul> <p><b><u>AUTO-EVENT COMMAND RESPONSE</u></b></p> <ul style="list-style-type: none"> <li>• The IPC will automatically update the status of it's outlets ("on" or "off")</li> </ul> <p><b><u>SOFTWARE CONTROLS</u></b></p> <ul style="list-style-type: none"> <li>• Multi-platform support</li> <li>• Control via Terminal Emulation Software such as PCAnywhere, Hyper Terminal, VT100, and many others</li> <li>• Simple command structure allows for easy programming of script or batch programs</li> </ul>
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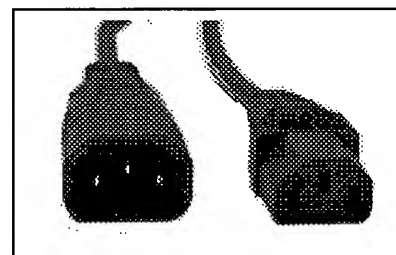
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IPC3402 Rear Panel

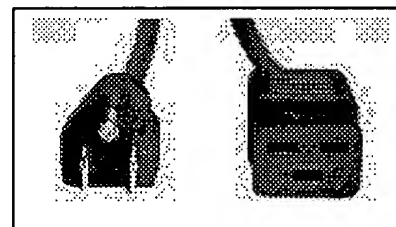
SPECIFICATIONS:	IPC3401	IPC3401-NET	IPC3402	IPC3402-NET
Voltage 50/60Hz:	120V~ or 240V~	120V~ or 240V~	120V~	120V~
Current Input:	20A @ 120V~ 16A @ 240V~	20A @ 120V~ 16A @ 240V~	20A	20A
Current Output:	16A	16A	16A	16A
Full Load V/A:	1920VA @ 120V~ 3840VA @ 240V~	1920VA @ 120V~ 3840VA @ 240V~	1920VA	1920VA
Network Ready:	NO	YES	NO	YES
Outlets:	IEC60320 C13	IEC60320 C13	NEMA 5-15R	NEMA 5-15R
Circuit Breaker:	20/20A	20/20A	20A	20A
EMI/RFI Filter:	20A	20A	20A	20A
TVSS	YES	YES	YES	YES
Power Inlet:	IEC60320 C20	IEC60320 C20	IEC60320 20	IEC60320 C20
Cable/plug:	Order separately	Order separately	Order separately	Order separately

Part Number	IEC Jumper Cable (from IPC3401 to "computer" style inlet)
010-0025	C13 to C14: 8' LENGTH JUMPER CABLE
010-0027	C13 to C14: 6' LENGTH JUMPER CABLE
010-0028	C13 to C14: 4' LENGTH JUMPER CABLE
010-0029	C13 to C14: 2' LENGTH JUMPER CABLE



C13 to C14 cable assembly

Part Number	Power Cable Description (C19 end connects to IPC34xx)
010-9334	C19, 8', 14/3 SJT, NEMA 5-15P (125V, 15A) STRAIGHT
010-9335	C19, 8', 12/3 SJT, NEMA 5-20P (125V, 20A) STRAIGHT
010-9336	C19, 8', 14/3 SJT, NEMA 6-15P (250V, 15A) STRAIGHT
010-9337	C19, 8', 12/3 SJT, NEMA 6-20P (250V, 20A) STRAIGHT
010-9338	C19, 8', 14/3 SJT, NEMA L5-15P (125V, 15A) TWISTLOCK
010-9339	C19, 8', 12/3 SJT, NEMA L5-20P (125V, 20A) TWISTLOCK
010-9340	C19, 8', 14/3 SJT, NEMA L6-15P (250V, 15A) TWISTLOCK
010-9341	C19, 8', 12/3 SJT, NEMA L6-20P (250V, 20A) TWISTLOCK
010-9342	C19, 8', 12/3 SJT, C20 MALE (20 AMP)
010-9343	C19, 2.5m, 1.5mm/3 HAR, CEE7-7 (250V, 16A) EUROPEAN
010-9344	C19, 2.5m, 1.5mm/3 HAR, BS546A (250V, 15A) BRITISH
010-9345	C19, 2.5m, 1.5mm/3 HAR, AS/NZS 3112 (250V, 15A) AUSTRALIAN
010-9346	C19, 2.5m, 1.5mm/3 HAR, SI32 (250V, 16A) ISRAELI
010-9347	C19, 2.5m, 1.5mm/3 HAR, CEI23-16 (250V, 16A) ITALIAN



C19 To plug required

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**COMMAND STRUCTURE:** UPPER CASE ONLY, FOLLOWED BY "Enter", "Carriage Return" or "Line Feed".

**NOTE:** The lower case "xx" or "n" in command code represents: xx=outlet number 01-80 and n= the unit number 0-9.

8 BIT ASCII	DESCRIPTION	8 BIT ASCII	DESCRIPTION
@@@@	Initialize IPC. If you have assigned an address, then enter the address instead of the factory default @@@@	AEn	Auto status update enabled YES / NO
A1n	Turn all outlets ON	WE0	Watchdog enabled for unit "0" only
A0n	Turn all outlets OFF	WT0	Watchdog timeout set for unit "0" only
Nxx	Turn ON any outlet	WD0	Watchdog disabled for unit "0" only
Fxx	Turn OFF any outlet	PWn	Enter user password (3 characters)
S1n	Sequence all outlets in unit "n" ON with preset delays (factory set at 4s)	PDn	Password disabled
S0n	Sequence all outlets in unit "n" OFF with preset delays (factory set at 4s)	SR0	Outlet 1 in unit 0 will automatically reboot in 5s
ADn	Enter new IPC user name (4 characters)	LO	Logout
ISn	Set Power up/down sequence. IPC will ask for (P) Preset or (D) Default? (D) = Previous setting and (P) = Enter new	?	Display Command menu
DXn	Display outlet status ON or OFF, Watchdog and Remote Status		

#### TVSS (Transient Voltage Surge Suppression)

MOV SPECIFICATIONS	
Continuous AC Voltage	270VAC
Continuous DC Voltage	360VDC
Maximum DC Leakage	200µA
Low Varistor Voltage Limit	389VDC
High Varistor Voltage Limit	453VDC
Nominal Varistor Voltage	424VDC
Current For Varistor Voltage	1mA
Maximum Clamp Voltage 8x20µs	680V
Maximum Clamp Voltage Test Current	100A
Peak Current Rating (1 Pulse) 8x20µs	10000A
Peak Current Rating (2 Pulse) 8x20µs	6500A
Energy Rating (10x100µs)	325J
Energy Rating (8x20µs)	325.00J
Capacitance	970J
Impulse Response Time	50pF

#### EMI/RFI FILTERING

Rated Voltage/Current:

- 125V/20A UL and CSA
- 250V/16A UL, CSA and VDE

Operating Frequency:

- 50/60 Hz.

Hi-pot rating 1 minute:

- 2250 VDC Line-Ground
- 1450 VDC Line-Line

Maximum Leakage Current (each line-ground):

- .5 mA @ 250V~ 50Hz

UL #E72928, CSA #LR97784, VDE #1104884

#### COMMON MODE INSERTION LOSS

(Line to Ground in 50ohm circuit)

Mhz.	.01	1	10	20	50	100
dB.	8	29	40	50	68	40

#### DIFFERENTIAL MODE INSERTION LOSS

(Line to Line in 50ohm circuit)

Mhz.	.01	1	10	20	50	100
dB.	8	23	45	58	32	28

<http://www.pulizzi.com/datasheets/ipc34xx.pdf>

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